Fig. 1A SEO. ID NO:1

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GRTSFPEDTVITYKCEESFVKIPGEKDSVICLKGSQWSDIEEFCNRSCEV	100
PTRLNSASLKQPYITQNYFPVGTVVEYECRPGYRREPSLSPKLTCLQNLK	150
WSTAVEFCKKKSCPNPGEIRNGQIDVPGGILFGATISFSCNTGYKLFGST	200
SSFCLISGSSVQWSDPLPECREIYCPAPPQIDNGIIQGERDHYGYRQSVT	250
YACNKGFTMIGEHSIYCTVNNDEGEWSGPPPECRGKSLTSKVPPTVQKPT	300
TVNVPTTEVSPTSQKTTTKTTTPNAQATRSTPVSRTTKHFHETTPNKGSG	350
TTSGTTRLLSGHTCFTLTGLLGTLVTMGLLT	

Fig. 1B SEO. ID NO:2

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1381 gtcctggaat cacattctta gcacacctac acctcttgaa aatagaacaa cttgcagaat
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1561 ccacttataa aggaaataaa aaatgaaaaa cattatttgg atatcaaaaag caaataaaaa
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1981 atttatattt atttatgaca gtgaacattc tgattttaca tgtaaaacaa gaaaagttga
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2101 qt
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Fig. 2 SEQ. ID NO:3

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Fig. 3 SEQ. ID NO:4

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6121	gaagaaaata	taggggreet	gogaettget	ttcaacaca	tcagatctga	getteataaa
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Fig. 4A

SEQ. ID NO:5

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YRYLORRKKKGKADGGAEYATYQTKSTTPAEQRG

Fig. 4B SEQ. ID NO:6

1 tetgetttee teeggagaaa taacagegte tteegegeeg egeatggage eteeeggeeg 61 ccgcgagtgt ccctttcctt cctggcgctt tcctgggttg cttctggcgg ccatggtgtt 121 gctgctgtac tccttctccg atgcctgtga ggagccacca acatttgaag ctatggagct 181 cattggtaaa ccaaaaccct actatgagat tggtgaacga gtagattata agtgtaaaaa 241 aggatactic tatatacctc ctcttgccac ccatactatt tgtgatcgga atcatacatg 301 gctacctgtc tcagatgacg cctgttatag agaaacatgt ccatatatac gggatccttt 361 aaatggccaa gcagtccctg caaatgggac ttacgagttt ggttatcaga tgcactttat 421 ttgtaatgag ggttattact taattggtga agaaattcta tattgtgaac ttaaaggatc 481 agtagcaatt tggagcggta agcccccaat atgtgaaaag gttttgtgta caccacctcc 541 aaaaataaaa aatggaaaac acacctttag tgaagtagaa gtatttgagt atcttgatgc 601 agtaacttat agttgtgatc ctgcacctgg accagatcca ttttcactta ttggagagag 661 cacgatttat tgtggtgaca attcagtgtg gagtcgtgct gctccagagt gtaaagtggt 721 caaatgtcga tttccagtag tcgaaaatgg aaaacagata tcaggatttg gaaaaaaatt 781 ttactacaaa gcaacagtta tgtttgaatg cgataagggt ttttacctcg atggcagcga 841 cacaattgtc tgtgacagta acagtacttg ggatccccca gttccaaagt gtcttaaagt 901 gtegacttet tecactacaa aatetecage gtecagtgee teaggteeta ggeetaetta 961 caageeteea gteteaaatt ateeaggata teetaaaeet gaggaaggaa taettgaeag 1021 tttggatgtt tgggtcattg ctgtgattgt tattgccata gttgttggag ttgcagtaat 1081 ttgtgttgtc ccgtacagat atcttcaaag gaggaagaag aaagggaaag cagatggtgg 1201 agattccaca acctggtttg ccagttcatc ttttgactct attaaaatct tcaatagttg 1261 ttattetgta gtttcactet catgagtgca actgtggett agetaatatt geaatgtgge 1321 ttgaatgtag gtagcatcct ttgatgcttc tttgaaactt gtatgaattt gggtatgaac 1381 agattgcctg ctttccctta aataacactt agatttattg gaccagtcag cacagcatgc 1441 ctggttgtat taaagcaggg atatgctgta ttttataaaa ttggcaaaat tagagaaata 1501 tagttcacaa tgaaattata ttttctttgt

Fig. 5

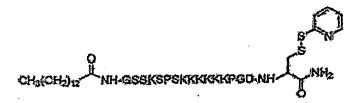


Fig. 6A SEQ. ID NO:7 ATA TAC GAA TTC AGA TCT ATG ACC GTC GCG CCG AGC GTG

Fig. 6B SEQ. ID NO:8 ACA GTG CTC GAG CAT TCA GGT GGT GGG CCA CTC CA

Fig 7A SEQ. ID NO:9 ATA TAC CTC GAG TCC TAA CAA ATG CAC GCC TCC AAA TGT GG-3

Fig 7B SEQ. ID NO:10 ACA GTG ATG CAT TGG TTT GGG TTT TCA ACT TGG C

Fig 7C SEQ. ID NO:11 ATA TAC ATG CAT CTG ACT TTC CCA TTG GGA CAT CTT TAA AG

Fig 7D SEQ. ID NO:12 ACA GTG AGA TCT TTA GTG ATG GTG ATG GTG ATG AAT TCC ACA GCG AGG GGC AGG GCT Fig. 8A SEQ ID NO:13

S V P Α P Μ T V Α R ₽ Α L v Ļ C L p A v W G Ŀ L L L L R L L G E ь P E G R Т S F P P A L C G p D V N A Q D L P K E S F V ĸ Ι P G E K P T V Т Y C E E D I S S D I E E F C N R S C K G W D S V I L Q Т Y s K P Y I Q N L Q C E \mathbf{v} . P Т R L N A S Y E S L T V E Y E C R P G R R ₽ F P V G v W S Т Α ٧ E F C K K Т C Q N L K S P K L L ν I L I R G Q I D P G G P G E N K S C Ν P K L F G s \mathbf{T} S Ş S C Т G Y T I F N F G A S ₽ C E I P E R Ι S G S S V 0 W S D L F C L D G I I G Е R D Η Y G Y P A P Р Q I N Q C М I G E Η S I V C N K G F T Y S T Y Α R Q. P Þ E C G E W S G P Y V N D E C T N V s D I L N ₽ v E N G s S ₽ N K C T ₽ N \mathbf{v} , \mathbf{M} ₽ G F R F S N E v v E F R C Q S L L C Α K W E P E L P S K G ₽ R R v K Q L N R т R p P D V Н Α E Q D P L С S R V C Q ₽ D E v F Y S C E G Y L K D N F S P G Q S ₽ Α P T R G Α Α s Μ R C T Ρ Q G D W Α F L L N G R ٧ L F C E v K S C D D М G Q D G A K v D F v C E G F Q · L P N L Q ν L S Y C V L G M \mathbf{E} S L W N S. K G S S Α S Α ν C E I F C P S P ₽ V I ₽ N G R H V P Q F P F G K A ٧ N Y T C D P T G K P L E V R Т F D L I G Е S т I R C T S Н P D G S V W S S P Α Ρ R C G Ι ь G. H G N G D P Q F F Α K L K T Q T N A S D C Α P D Н L Q Т K Y E C R ₽ E Y Y G R P F F P I G S L T C ſD N L v W S S P K D V C K R K s I L М v I T P D P V N G v Н I T D Q s C K Ρ I S I C T T G Н R L G Н S V G S R N Y S C E C I L S G N Α Α Н W S т K P P I Q Α R I Р C G L P Ρ T I A N G D F I S Т N R C P S G G R E N F Н Y G s ν ν T Y R N G Y C Т S N D Q V K F E L G E P S I D V V P P N G I W S G P A P Q С Ι I P N K C Т E V V E N G I v s D N R S L F s L N ٧ L v V K C Q E F R C G F М K G ₽ R R Α Q Р P V C ₽ P D K W E Р E L P S C S R Q L N S P G Q E V ν ь Η Α E R T Q Ŕ D K D N F C Т F Y S C E р G Y D ь R G Α Α S Μ R P S C D F М G D W S Α A P Т C E V K D Q P L G Α K V N G R v L F P V Ν L Q G Q L L S Y C V D F V C D E G F Q L K G S S Α L F С Р Α G М Е S L W N S S V P ν C E Q Ι Н т P L E v F P F S p P V I P N G R G K F D P G T S Ď L G ·K A ν N Y T C H P D R

I G E S T I R C T S D P Q G N G V W S S P A P R C G I H H H H H H

Fig. 8B SEQ. ID NO: 14

ATGACCGTCGCGCGGCCGAGCGTGCCCGCGGCGCTGCCC

CCCGAGGATACTGTAATAACGTACAAATGTGAAGAAAGCTTTGTGAAAATTCCTGGCGAGAAG GACTCAGTGATCTGCCTTAAGGGCAGTCAATGGTCAGATATTGAAGAGTTCTGCAATCGTAGC TGCGAGGTGCCAACAAGGCTAAATTCTGCATCCCTCAAACAGCCTTATATCACTCAGAATTAT TTTCCAGTCGGTACTGTTGTGGAATATGAGTGCCGTCCAGGTTACAGAAGAGAACCTTCTCTA TCACCAAAACTAACTTGCCTTCAGAATTTAAAATGGTCCACAGCAGTCGAATTTTGTAAAAAG AAATCATGCCCTAATCCGGGAGAAATACGAAATGGTCAGATTGATGTACCAGGTGGCATATTA TTTGGTGCAACCATCTCCTTCTCATGTAACACAGGGTACAAATTATTTGGCTCGACTTCTAGT TTTTGTCTTATTTCAGGCAGCTCTGTCCAGTGGAGTGACCCGTTGCCAGAGTGCAGAGAAATT TATTGTCCAGCACCACAAATTGACAATGGAATAATTCAAGGGGAACGTGACCATTATGGA TATAGACAGTCTGTAACGTATGCATGTAATAAAGGATTCACCATGATTGGAGAGCACTCTATT TATTGTACTGTGAATAATGATGAAGGAGAGTGGAGTGGCCCACCACCTGAATGC TCGAGTCCTAACAAATGCACGCCTCCAAATGTGGAAAATGGAAATATTGGTATCTGACAAC AGAAGCTTATTTTCCTTAAATGAAGTTGTGGAGTTTAGGTGTCAGCCTGGCTTTGTCATG AAAGGACCCGCCGTGTGAAGTGCCAGGCCCTGAACAAATGGGAGCCGGAGCTACCAAGC TGCTCCAGGGTATGTCAGCCACCTCCAGATGTCCTGCATGCTGAGCGTACCCAAAGGGAC AAGGACAACTTTTCACCTGGGCAGGAAGTGTTCTACAGCTGTGAGCCCGGCTACGACCTC AGAGGGGCTGCGTCTATGCGCTGCACACCCCAGGGAGACTGGAGCCCTGCAGCCCCCACA TGTGAAGTGAAATCCTGTGATGACTTCATGGGCCAACTTCTTAATGGCCGTGTGCTATTT CCAGTAAATCTCCAGCTTGGAGCAAAAGTGGATTTTGTTGTGATGAAGGATTTCAATTA AAAGGCAGCTCTGCTAGTTACTGTGTCTTGGCTGGAATGGAAAGCCTTTGGAATAGCAGT GTTCCAGTGTGTGAACAAATCTTTTGTCCAAGTCCTCCAGTTATTCCTAATGGGAGACAC ACAGGAAAACCTCTGGAAGTCTTTCCCTTTGGAAAAGCAGTAAATTACACATGCGACCCC CACCCAGACAGAGGGACGAGCTTCGACCTCATTGGAGAGAGCACCATCCGCTGCACAAGT GACCCTCAAGGGAATGGGGTTTGGAGCAGCCCTGCCCCTCGCTGTGGAATTCTGGGTCAC TGTCAAGCCCCAGATCATTTTCTGTTTGCCAAGTTGAAAAACCCAAACCAATGCATCTGAC TTTCCCATTGGGACATCTTTAAAGTACGAATGCCGTCCTGAGTACTACGGGAGGCCATTC TCTATCACATGTCTAGATAACCTGGTCTGGTCAAGTCCCAAAGATGTCTGTAAACGTAAA TCATGTAAAACTCCTCCAGATCCAGTGAATGGCATGGTGCATGTGATCACAGACATCCAG GTTGGATCCAGAATCAACTATTCTTGTACTACAGGGCACCGACTCATTGGTCACTCATCT GCTGAATGTATCCTCTCGGGCAATGCTGCCCATTGGAGCACGAAGCCGCCAATTTGTCAA CGAATTCCTTGTGGGCTACCCCCCACCATCGCCAATGGAGATTTCATTAGCACCAACAGA AAGGTGTTTGAGCTTGTGGGTGAGCCCTCCATATACTGCACCAGCAATGACGATCAAGTG GGCATCTGGAGCGGCCCGGCCCCTCAGTGCATTATACCTAACAAATGCACGCCTCCAAAT GTGGAAAATGGAATATTGGTATCTGACAACAGAAGCTTATTTTCCTTAAATGAAGTTGTG GAGTTTAGGTGTCAGCCTGGCTTTGTCATGAAAGGACCCCGCCGTGTGAAGTGCCAGGCC CTGAACAAATGGGAGCCGGAGCTACCAAGCTGCTCCAGGGTATGTCAGCCACCTCCAGAT GTCCTGCATGCTGAGCGTACCCAAAGGGACAAGGACAACTTTTCACCCGGGCAGGAAGTG TTCTACAGCTGTGAGCCCGGCTATGACCTCAGAGGGGCTGCGTCTATGCGCTGCACACCC CAGGGAGACTGGAGCCCTGCAGCCCCCACATGTGAAGTGAAATCCTGTGATGACTTCATG

GGCCAACTTCTTAATGGCCGTGTGCTATTTCCAGTAAATCTCCAGCTTGGAGCAAAAGTG

Fig. 9A SEO ID NO:15

P S V A L P М A R L L L V L L C L Α v W G E L P R ь L P E G R Т S F D G Р P D ٧ P N A Q L C L A I Т Y C E S F V K I P G E K ₽ E D T v K E C N C L K G S Q W S D I E E F R S D S v I C v Р т R L N S Α S L K Q P Y I Т Q N Y E C P G T v v E Y E R P G Y R R E S L F ₽ V F v C K L K W S Т Α E K S ₽ K L Т C L Q N P G E I R N G Q I D ν P G G I ľ ĸ S C Þ N F G Т I S F S C N T G Y ĸ L F G S Т S S A P E C R E I F I G S Ş v Q W S D P L С .L S G E R D Н Y G P Q I D N G I I Q Y C P А ₽ Н ĸ F I G E Y R 0 S v T Y Α C N G T М E C Y C Т ν N N D E G Έ W S G P P P \overline{s} V P N v E N G I L D N s s P N K C \mathbf{T} ₽ E C P G F v М N E V V F R Q R s L F S L C K W E P E P s V Q N L K G P R R K A L Þ D V E T Q R L Н Α R C S R V C Q ₽ P D S C E Ρ G Y D L F P G 0 E ν F Y K D N S Ţ P G D W S P A Α p T S Μ R C Q R G Α Α v F D F G Q L L N G R L C D М C E v K S ٧ C E F Q L D F D G Α K V P V N L Q L G W N G E ·S S S S Y C v L A M L K G S S Α F C P S P P ν I P N G R Η v Р v C Ε Q Ι ν Y Т C D v F P F G K Α N G P E Т K L I E S Т I R C T S F D G т S L Η Р D R G C G I L G Н W S S P A P R D ₽ Q G N G V S Н L F A K L K Т Q Т N A D C 0 Α Ρ D F C R P Е Y Y G R P F Т s K Y E F P I G L K S P ĸ D v C K R I. С D N L v W S s т L ٧ v Т D I Q C K T P P D P V N G М Η Т S G H S V G S R I N Y . S C Т T G Η R L I s S N Α Α Н W S т K P P Ι C Q E C I G L Α P Ţ I Α N G D F I S T N R С G L P R I P P S G G R S V V T Y R С N G E N F Н Y G P Ι Y C Т S D D Q V V F E V G E S N K L P 0 C I Ι P N K C Т P P N I W s G P A G

S N E V V ٧ Ε N G I L v S D N R S L v K C V K P R E F R C Q P G F M G R Q Α P ₽ V C P Ļ N K W E ₽ E L P S C S R Q D Т R D K D N F S Р G Q E V v L Н Α Е R Q F E G Y D L R G Α A S М R C Т P Y S C P P т C E V K S C D D F М Q G D W S P Α A G Α K F P V N L Q L V G Q L L N G R V L s Y C v G F Q L K G S S Α L D F V C D E V V C Е Q I F C s W N S S P A G Μ E L Т K P L Е v F P F N G R Н G S P P ٧ I P Т F D R G S D Y T C D P Н P L G K Α V N S Т P G N G v W S I G E S T I R C S D Q C G I L G H C Q Α P D Η F L F A P Α P R· I G Т S K Y E K т N A S D F P L L K Т Q P F S I Т C D N L v W G L R Y Y R C P Ε P V K Т Ρ P D N C R K S C S S P K D v K T D I V G Μ V Η V I Q G S G Y S C T Т G Н R L Ι Н S I N R Н W S т K P Ρ Ι C Q S G A A Α E C I N L Т G F I S N R P T I N D R I P С G L P A G Y C P G S G Ē N Y G s V v T R N R F Η V. G E P s Ι Y C \mathbf{T} S N D D Q V K V F E L C p N K C т P P S G Р A P 0 I Ι G I W V S N R S L F S L N E V v D E Ν G I L F V G P R R V K C Q A G Μ K E F R C Q Ρ v ₽ P ₽ D ₽ \mathbf{E} L P S C S R C Q L N Κ W E K D N F ₽ G Q E V V E R. T Q R D L Н Α Y D G Α Α S М R C T P F G L R Y C E P S C v K C D D F P T E S M Q G D W S P Α Α G A K V N G R v L F Ъ V N L Q L G 0 Ŀ L F L K G S S Α S Y C V L D F v C D Ε G 0 · S L W N S S v P v C Е 0 I F C ₽ Α G М Е v F P F p N G R H Т G K P L Ε S P P ٧7 Ι P D R Т S F D L Y т C D р Н G G K Α V N v S P W S I G Ε S т Ξ R C Т D Q G N G P Α P R C G I Η H H H H Η

Fig 9B SEQ. ID NO:16

TCGAGTCCTAACAAATGCACGCCTCCAAATGTGGAAAATGGAATATTGGTATCTGACAAC AGAAGCTTATTTTCCTTAAATGAAGTTGTGGAGTTTAGGTGTCAGCCTGGCTTTGTCATG AAAGGACCCCGCCGTGTGAAGTGCCAGGCCCTGAACAAATGGGAGCCGGAGCTACCAAGC TGCTCCAGGGTATGTCAGCCACCTCCAGATGTCCTGCATGCTGAGCGTACCCAAAGGGAC AAGGACAACTTTTCACCTGGGCAGGAAGTGTTCTACAGCTGTGAGCCCGGCTACGACCTC AGAGGGGCTGCGTCTATGCGCTGCACACCCCAGGGAGACTGGAGCCCTGCAGCCCCCACA TGTGAAGTGAAATCCTGTGATGACTTCATGGGCCAACTTCTTAATGGCCGTGTGCTATTT AAAGGCAGCTCTGCTAGTTACTGTGTCTTGGCTGGAATGGAAAGCCTTTGGAATAGCAGT GTTCCAGTGTGTGAACAAATCTTTTGTCCAAGTCCTCCAGTTATTCCTAATGGGAGACAC ACAGGAAAACCTCTGGAAGTCTTTCCCTTTGGAAAAGCAGTAAATTACACATGCGACCCC CACCCAGACAGAGGGACGAGCTTCGACCTCATTGGAGAGAGCACCATCCGCTGCACAAGT GACCCTCAAGGGAATGGGGTTTGGAGCAGCCCTGCCCCTCGCTGTGGAATTCTGGGTCAC TGTCAAGCCCCAGATCATTTCTGTTTGCCAAGTTGAAAACCCAAACCAATGCATCTGAC TTTCCCATTGGGACATCTTTAAAGTACGAATGCCGTCCTGAGTACTACGGGAGGCCATTC TCTATCACATGTCTAGATAACCTGGTCTGGTCAAGTCCCAAAGATGTCTGTAAACGTAAA TCATGTAAAACTCCTCCAGATCCAGTGAATGGCATGGTGCATGTGATCACAGACATCCAG GTTGGATCCAGAATCAACTATTCTTGTACTACAGGGCACCGACTCATTGGTCACTCATCT GCTGAATGTATCCTCTCGGGCAATGCTGCCCATTGGAGCACGAAGCCGCCAATTTGTCAA CGAATTCCTTGTGGGCTACCCCCCACCATCGCCAATGGAGATTTCATTAGCACCAACAGA AAGGTGTTTGAGCTTGTGGGTGAGCCCTCCATATACTGCACCAGCAATGACGATCAAGTG GGCATCTGGAGCGGCCCGGCCCCTCAGTGCATTATACCTAACAAATGCACGCCTCCAAAT GTGGAAAATGGAATATTGGTATCTGACAACAGAAGCTTATTTTCCTTAAATGAAGTTGTG GAGTTTAGGTGTCAGCCTGGCTTTGTCATGAAAGGACCCCGCCGTGTGAAGTGCCAGGCC CTGAACAAATGGGAGCCGGAGCTACCAAGCTGCTCCAGGGTATGTCAGCCACCTCCAGAT GTCCTGCATGCTGAGCGTACCCAAAGGGACAAGGACAACTTTTCACCCGGGCAGGAAGTG TTCTACAGCTGTGAGCCCGGCTATGACCTCAGAGGGGCTGCGTCTATGCGCTGCACACCC CAGGGAGACTGGAGCCCTGCAGCCCCCACATGTGAAGTGAAATCCTGTGATGACTTCATG GGCCAACTTCTTAATGGCCGTGTGCTATTTCCAGTAAATCTCCAGCTTGGAGCAAAAGTG GATTTTGTTTGTGATGAAGGATTTCAATTAAAAGGCAGCTCTGCTAGTTATTGTGTCTTG GCTGGAATGGAAAGCCTTTGGAATAGCAGTGTTCCAGTGTGTGAACAAATCTTTTGTCCA AGTCCTCCAGTTATTCCTAATGGGAGACACACAGGAAAACCTCTGGAAGTCTTTCCCTTT ATTGGAGAGAGCACCATCCGCTGCACAAGTGACCCTCAAGGGAATGGGGTTTGGAGCAGC CCTGCCCTCGCTGTGGAATTCTGGGTCACTGTCAAGCCCCAGATCATTTTCTGTTTGCC AAGTTGAAAACCCAAACCAATGCATCTGACTTTCCCATTGGGACATCTTTAAAGTACGAA TGCCGTCCTGAGTACTACGGGAGGCCATTCTCTATCACATGTCTAGATAACCTGGTCTGG TCAAGTCCCAAAGATGTCTGTAAACGTAAATCATGTAAAACTCCTCCAGATCCAGTGAAT GGCATGGTGCATGTGATCACAGACATCCAGGTT

12/25

Fig. 10A SEQ. ID NO:17 ATA TAC GAA TTC TGG TTG AGT CCA AAT ATG GTC CC

Fig. 10B SEQ. ID NO:18 ACA GTG AGA TCT TTA TCA TTT ACC CGG AGA CAG GGA G

Fig. 11A SEQ. ID NO:19

G N V. K E K Ι C E Ε S V Ι T Y K C S S Ε E D S v I C K G S Q W D Ι Y S L K P Y Ι E 77 Þ T R L N S Α C Y L v V Y E C R P G E V K S T Α v C Q N L K W P Ъ S L D v G G E I R N G Т K S C S F T I S F S C N G G Α Ι S v Q W S G S C I I \mathbf{D} G I I GE D G P Q N C P P C K G F Т М I E S V Т Y Α N Y R Q G P P E C D E G E W S C Т V N N Y v E N Ι D Т s

C p G R S L S ٧ V E F R Q F V M F L K P N K W E P E ₽ S G R R V K C 0 A L L C P P D V Н Α E R T Q R S R v C P L ח Q E ν F Y S F. P G Κ G C Y D D N F s ₽ Q L S P R G Α S М R C Т P Q G D W A A P T A C F N G R v F E v K S C D D M G Q L L P G K v D F V C D E G F Q v N Q L A T. L K Y C V G E S W G S S L Α M ь N S S S Α I C P P ٧ P V C E 0 F P S ₽ V Ι N G R H T v F P F G K A V N Y T C G K P L E D P н R G T S F D L I G E S T I R C T S P D ν S S P Α P R C G Т D P N G W L Q G P C P S C ₽ P E F L V Ε S K Y G P Α G G Р v F L F P p K P K D T L M I S R S Т Е v т C v v v D V S 0 Е D P E V 0 F P N Y v D G ν E V H N Α K T K p R E E Q W F V S V Т V Q D W Ν S Т Y R v L L Η L N G Е Y K C K V S N K G L ₽ S S I E K T K I S K Α K G 0 P R E P Q V Y Т L P P S Q F Y P E E M Т K N Q v S L Т C L V K G S P E Y K T T P ח Ι Α 7.7 E W E S N G Q D N F F Y Т v D K S Ρ ٧ L D S D G S L S R L Н N R W 0 E G N v F S C S V M Η Е K Y T 0 K S т, S L S G

Fig. 11B SEO. ID NO:20

ATGACCGTCGCGCGGCCGAGCGTGCCCGCGGCGCTGCCC

CCCGAGGATACTGTAATAACGTACAAATGTGAAGAAAGCTTTGTGAAAAATTCCTGGCGAGAAG GACTCAGTGATCTGCCTTAAGGGCAGTCAATGGTCAGATATTGAAGAGTTCTGCAATCGTAGC TGCGAGGTGCCAACAAGGCTAAATTCTGCATCCCTCAAACAGCCTTATATCACTCAGAATTAT TTTCCAGTCGGTACTGTTGTGGAATATGAGTGCCGTCCAGGTTACAGAAGAGAACCTTCTCTA TCACCAAAACTAACTTGCCTTCAGAATTTAAAATGGTCCACAGCAGTCGAATTTTGTAAAAAAG **AAATCATGCCCTAATCCGGGAGAAATACGAAATGGTCAGATTGATGTACCAGGTGGCATATTA** TTTGGTGCAACCATCTCCTTCTCATGTAACACAGGGTACAAATTATTTGGCTCGACTTCTAGT TTTTGTCTTATTTCAGGCAGCTCTGTCCAGTGGAGTGACCCGTTGCCAGAGTGCAGAGAAATT TATTGTCCAGCACCACAAATTGACAATGGAATAATTCAAGGGGAACGTGACCATTATGGA TATAGACAGTCTGTAACGTATGCATGTAATAAAGGATTCACCATGATTGGAGAGCACTCTATT TATTGTACTGTGAATAATGATGAAGGAGAGTGGAGTGGCCCACCACCTGAATGC ${ t TCGAGTCCTAACAAATGCACGCCTCCAAATGTGGAAAATGGAATATTGGTATC\overline{ t TGACAAC}$ AGAAGCTTATTTTCCTTAAATGAAGTTGTGGAGTTTAGGTGTCAGCCTGGCTTTGTCATG **AAAGGACCCGCCGTGTGAAGTGCCAGGCCCTGAACAAATGGGAGCCGGAGCTACCAAGC** TGCTCCAGGGTATGTCAGCCACCTCCAGATGTCCTGCATGCTGAGCGTACCCAAAGGGAC AAGGACAACTTTTCACCTGGGCAGGAAGTGTTCTACAGCTGTGAGCCCGGCTACGACCTC

AGAGGGGCTGCGTCTATGCGCTGCACACCCCAGGGAGACTGGAGCCCCTGCAGCCCCCACA TGTGAAGTGAAATCCTGTGATGACTTCATGGGCCAACTTCTTAATGGCCGTGTGCTATTT AAAGGCAGCTCTGCTAGTTACTGTGTCTTGGCTGGAATGGAAAGCCTTTGGAATAGCAGT ${\tt GTTCCAGTGTGAACAAATCTTTTGTCCAAGTCCTCCAGTTATTCCTAATGGGAGACAC}$ ACAGGAAAACCTCTGGAAGTCTTTCCCTTTGGAAAAGCAGTAAATTACACATGCGACCCC CACCCAGACAGAGGGACGAGCTTCGACCTCATTGGAGAGAGCACCATCCGCTGCACAAGT GACCCTCAAGGGAATGGGGTTTGGAGCAGCCCTGCCCCTCGCTGTGGAATTCTG GTTGAGTCCAAATATGGTCCCCCATGCCCATCATGCCCAGCACCTGAGTTCCTG GGGGGACCATCAGTCTTCCTGTTCCCCCCAAAACCCAAGGACACTCTCATGATCTCCCGG ACCCTGAGGTCACGTGCGTGGTGGTGGACGTGAGCCAGGAAGACCCCGAGGTCCAGTTC AACTGGTACGTGGATGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAG TTCAACAGCACGTACCGTGTGGTCAGCGTCCTCACCGTCCTGCACCAGGACTGGCTGAAC GGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGGCCTCCCGTCCTCCATCGAGAAAAACC ATCTCCAAAGCCAAAGGGCAGCCCCGAGAGCCACAGGTGTACACCCTGCCCCCATCCCAG GAGGAGATGACCAAGAACCAGGTCAGCCTGACCTGCCTGGTCAAAGGCTTCTACCCCAGC GACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGGACAACTACAAGACCACGCCT $\tt CCCGTGCTGGACTCCGACGGCTCCTTCTTCCTCTACAGCAGGCTAACCGTGGACAAGAGC$ AGGTGGCAGGAGGGGAATGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCAC TACACACAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGATAAAGATCT

Fig. 12A SEQ. ID NO:21 ATA TAC GAA TTC TGG GTC ACT GTG AGG AGC CAC CAA CAT TTG AAG C

Fig. 12B
SEQ. ID NO:22
ACA GTG AGA TCT TTA GTG ATG GTG ATG GTG ATG CGA CAC TTT AAG ACA CTT
TGG AAC

Fig. 13A SEQ. ID NO:23 M v Α R P S P L L L G L Τ, G E L R F p D V P N Α 0 Α L Ε G D C G L P Т C E Ε S F v Κ Ι р G E K P Е D V I Y K т S W S Ι E F C D S V C ьĸ G Q מ E S L Y I C Е R L N S Α Y F P v G Т v v E Y E C S K T C L Q N L K T L I D S C. P P G E I R N G Q V K N F S C N T' G Y K L F G Т S S s ٧, 0 W S D P L

Y C P Α P P Q I n N G T Т Q G E R D Н Y G Y R Q S V т Y A C N ĸ G F T M I G E H S Т Y C Т V N N D E G E W S G P P P E C S Т v E N G ร S P N K C P P N I L v D N R S F S N E v v E F R C Q P G F v L ь М K v K K P G P R R C Q A L N W E E L P S C S R v C Q P ₽ P D v L H Α E R Т Q R D K G V S C P D N F S P Q E F Y E G Y D L М Ċ T D W S P R G Α A S R ₽ Q G P Α A T C Ε V K S C D D F М G Q L L N G R V L F P ٧ N L Q L G A K V D F V C D E G F Q L Y C E K G S S Α S V L A G М S L W N S S V Р \mathbf{v} . E Q I F C P S P ₽ ٧ I P N G R Н C Т v F K V Т C G P F G A N Y n P K P L E S C T P Т S F I G E т I R S H D R G D L D P N G V W S S ₽ Α P R C G I L G H Q G F E I P K P Y C Ε P ₽ Т E Α М L G K Y E E ν D Y K C K K G Y F Y I P p I E R L G C D Т Р v S D C Т I R N Н W L D A A Η т Y R E Т C P Y I R D р L N G Q Α V Þ Α N G Y F I C N E G Y Y L I G Т Y Е F Q М Η Е Y C K G S V Α I W S G K P G F. Ι L E L K Н Т C Т P p P K Т K G P I C K v L N Ε F T S C P Α F S E V Е V E Y ь D A v Y D S L Ι G E .S Т I Y C G D Ν S P G P D P F A, V V V ν W P E C K K C R F P E S R Α Α G F G K K F Y Y Κ Α Т v M F I S N G K Q Т C G S D I v D S N S Y D E С D K G F L K C K Т W D P P v Ρ L v S Η Η H Н Н

Fig. 13B SEO. ID NO:24

ATGACCGTCGCGCGGCCGAGCGTGCCCGCGCGCGCTGCCC

AAAGGACCCCGCCGTGTGAAGTGCCAGGCCCTGAACAAATGGGAGCCGGAGCTACCAAGC TGCTCCAGGGTATGTCAGCCACCTCCAGATGTCCTGCATGCTGAGCGTACCCAAAGGGAC AAGGACAACTTTTCACCTGGGCAGGAAGTGTTCTACAGCTGTGAGCCCGGCTACGACCTC AGAGGGGCTGCGTCTATGCGCTGCACACCCCAGGGAGACTGGAGCCCTGCAGCCCCCACA TGTGAAGTGAAATCCTGTGATGACTTCATGGGCCAACTTCTTAATGGCCGTGTGCTATTT AAAGGCAGCTCTGCTAGTTACTGTGTCTTGGCTGGAATGGAAAGCCTTTGGAATAGCAGT GTTCCAGTGTGTGAACAAATCTTTTGTCCAAGTCCTCCAGTTATTCCTAATGGGAGACAC ACAGGAAAACCTCTGGAAGTCTTTCCCTTTGGAAAAGCAGTAAATTACACATGCGACCCC CACCCAGACAGAGGGACGAGCTTCGACCTCATTGGAGAGAGCACCATCCGCTGCACAAGT GACCCTCAAGGGAATGGGGTTTGGAGCAGCCCTGCCCCTCGCTGTGGAATTCTGGGTCAC TGTGAGGAGCCACCAACATTTGAAGCTATGGAGCTCATTGGTAAACCAAAACCCTACTAT GAGATTGGTGAACGAGTAGATTATAAGTGTAAAAAAGGATACTTCTATATACCTCCTCTT GCCACCCATACTATTTGTGATCGGAATCATACATGGCTACCTGTCTCAGATGACGCCTGT TATAGAGAAACATGTCCATATATACGGGATCCTTTAAATGGCCAAGCAGTCCCTGCAAAT GGGACTTACGAGTTTGGTTATCAGATGCACTTTATTTGTAATGAGGGTTATTACTTAATT GGTGAAGAAATTCTATATTGTGAACTTAAAGGATCAGTAGCAATTTGGAGCGGTAAGCCC CCAATATGTGAAAAGGTTTTGTGTACACCACCTCCAAAAATAAAAAATGGAAAAACACACC TTTAGTGAAGTAGAAGTATTTGAGTATCTTGATGCAGTAACTTATAGTTGTGATCCTGCA CCTGGACCAGATCCATTTTCACTTATTGGAGAGAGCACGATTTATTGTGGTGACAATTCA $\tt GTGTGGAGTCGTGCTCCAGAGTGTAAAGTGGTCAAATGTCGATTTCCAGTAGTCGAA$ AATGGAAAACAGATATCAGGATTTGGAAAAAATTTTACTACAAAGCAACAGTTATGTTT GAATGCGATAAGGGTTTTTACCTCGATGGCAGCGACACAATTGTCTGTGACAGTAACAGT ACTTGGGATCCCCAGTTCCAAAGTGTCTTAAA//GTGTCG//CATCACCATCACCATCAC TAAAGATCT

WESTERN BLOT OF HYBRID PROTEINS

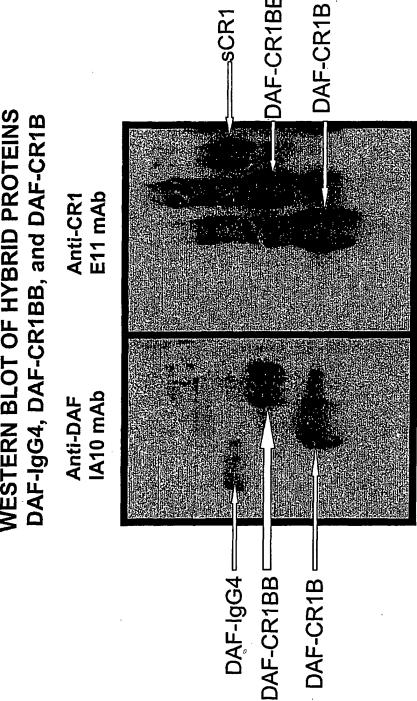
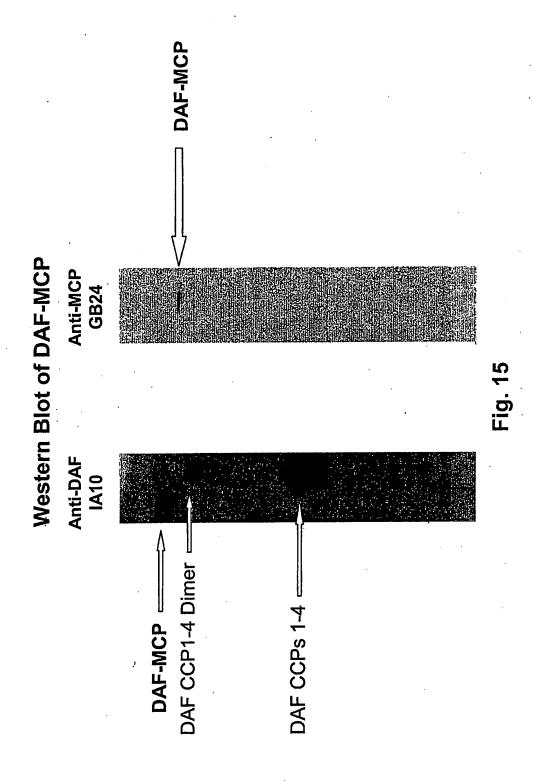
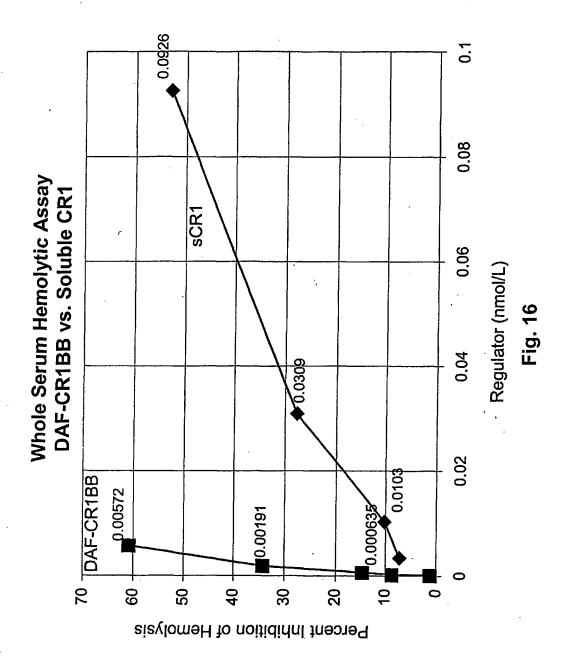
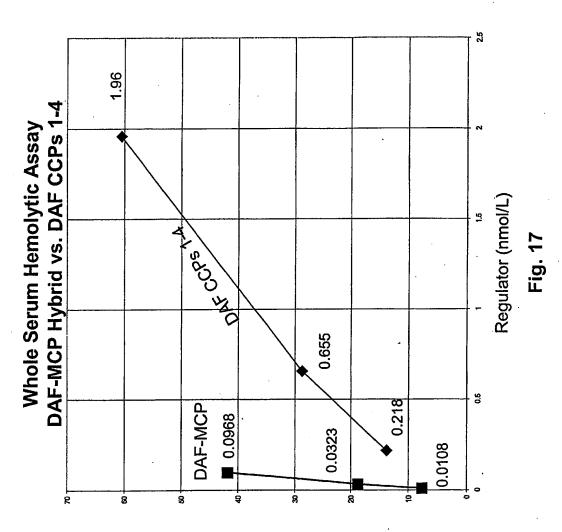


Fig. 14







Percent Inhibition of Hemolysis

Classical Pathway C3 Convertase Decay

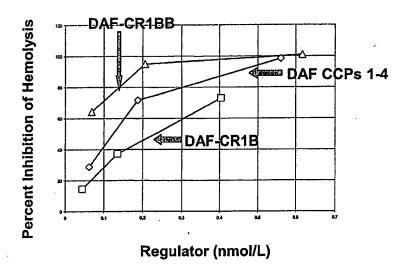


Fig. 18A

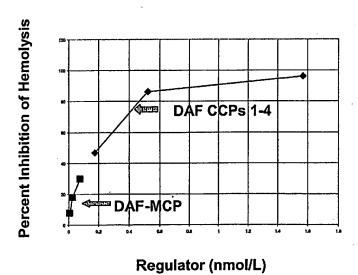
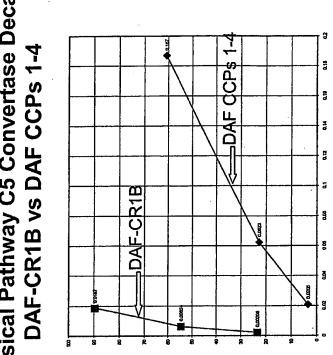


Fig. 18B

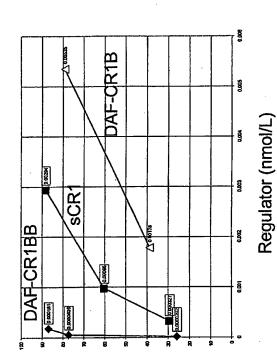
Classical Pathway C5 Convertase Decay DAF-CR1B vs DAF CCPs 1-4



Percent Inhibition of Hemolysis

Regulator (nmol/L)

Classical Pathway C5 Convertase Decay DAF-CR1BB vs sCR1 vs DAF-CR1B



Percent Inhibition of Hemolysis

Fig. 20



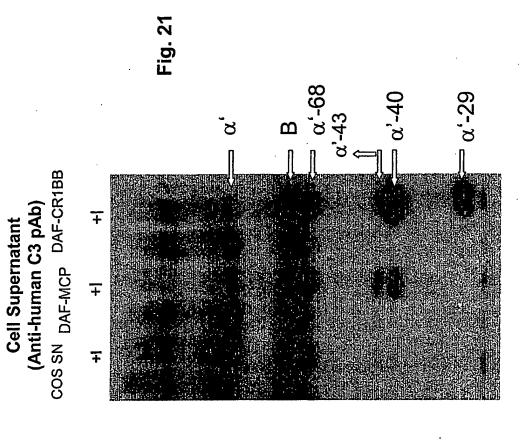






Fig. 22